



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**Firedoor Corporation of Florida
1350 N. W. 74th Street
Miami, Fl. 33147**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series 1210 Steel Storefront System

APPROVAL DOCUMENT: Drawing No. **W02-47** titled "Series 1210 Steel Storefront System" Sheets 1 through 6 of 6, prepared by Al-Farooq Corporation, dated 05-13-02 and last revised on 10-29-02, signed and sealed by Dr. Humayun Farooq, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA # **02-00906.04** consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



**NOA No 02-0906.04
Expiration Date: November 21, 2007
Approval Date: November 21, 2002**

Firedoor Corporation of Florida

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W02-47** titled "Series 1210 Steel Storefront System" Sheets 1 through 6 of 6, prepared by Al-Farooq Corporation, dated 05-13-02 and last revised on 10-29-02, signed and sealed by Dr. Humayun Farooq, P. E.

B. TESTS

1. Test reports on
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
 - 3) Water Resistance Test, per PA 202-94
 - 4) Large Missile Impact Test, SFBC PA 201-94
 - 2) Cyclic Loading Test, per SFBC PA 203-94along with installation diagram of an steel storefront system marked-up by Fenestration Testing Laboratories, Inc. Test Reports Nos. **FTL 2801 (FTL00124)**, dated 12/06/00, signed and sealed by Antonio Acevedo, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, prepared by Al-Farooq Corporation, dated 08-02-02 and last revised on 10-07-02, signed and sealed by Dr. Humayun Farooq, P.E.

D. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **00-0524.06** issued to Nebula Glass Int'l, for "Glasslam Safety-Plus", expiring on 09/09/2003.
2. Notice of Acceptance No. **00-0524.06** issued to Nebula Glass Int'l, for "Glasslam Safety-Plus", expiring on 09/09/2003.
3. Notice of Acceptance No. **01-1108.09** issued to Apache Product Company, for "ESP-expanded Polystyrene", expiring on 01/11/2007.
4. Tensile test report prepared by ATC Associate Inc., report No. FTL2891, dated 12-28-00 for Steel samples, tested per ASTM E-A370-97-a, signed and sealed by Steven E. Black, P.E.
5. Tensile test report prepared by Fenestration Testing Lab., report No. FTL2801, dated 11-06-00 for Steel samples, tested per ASTM E-A370-97-a, signed and sealed by Antenio Acevedo, P.E.

E. STATEMENTS

1. Letter of conformance issued by Al-Farooq Corporation, both letters dated October 07, 2002, signed and sealed by Dr. Humayun Farooq, P.E.
2. Letter of "No financial interest to test Lab" issued by Al-Farooq Corporation, dated August 02, 2002, signed & sealed by Dr. Humayun Farooq, P.E.

F. OTHER

1. Test Proposal No. 98-0134 dated February 03, 1999 approved by BCCO.

Ishaq I. Chanda

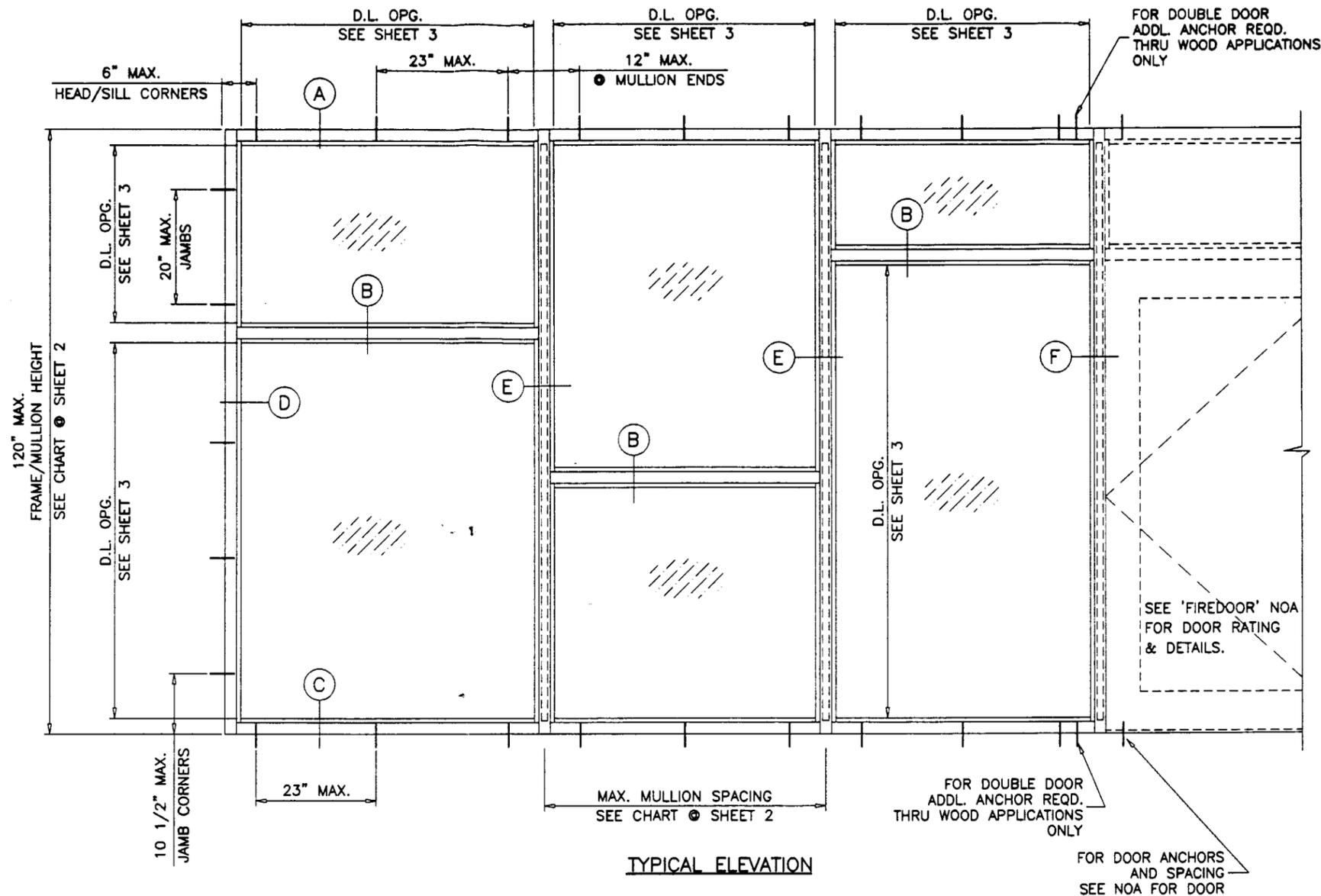
Ishaq I. Chanda, P.E. Product Control Examiner

Product Control Division

NOA No 02-0906.04

Expiration Date: November 21, 2007

Approval Date: November 21, 2002



SERIES 1210-IG STEEL STOREFRONT SYSTEM

STOREFRONT SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPROVED ENTRANCE DOORS BY 'FIREDOOR'.

SEE CHART ON SHEET 2 TO DETERMINE DESIGN LOAD CAPACITY OF MULLIONS.

SEE CHART ON SHEET 3 TO DETERMINE DESIGN LOAD CAPACITY OF VARIOUS TYPES OF GLASS.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE. ALSO FOR WIND LOADS AS PER ASCE 7 USING CORRESPONDING LOADS.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHART ON SHEET 2. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 3** SEE CHARTS ON SHEETS ON SHEET 3 FOR CAPACITY OF DESIRED GLASS SIZE.

Approved as complying with the Florida Building Code
 Date NOVEMBER 21, 2002
 NOA# 02-0906-04
 Miami Dade Product Control
 Division
 By Ishag I. Chaudhry

Engr: DR. HUMAYOON FAROOQ
 STRUCTURES
 FLA. PE # 16557
 OCT 29 2002

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 STORE/W02-47FDC

SERIES 1210 STEEL STOREFRONT SYS. (L.M.)
FIREDOOR CORPORATION
 1350 N.W. 74TH STREET
 MIAMI, FL. 33147
 TEL.(305) 691-1500 FAX(305) 836-4797

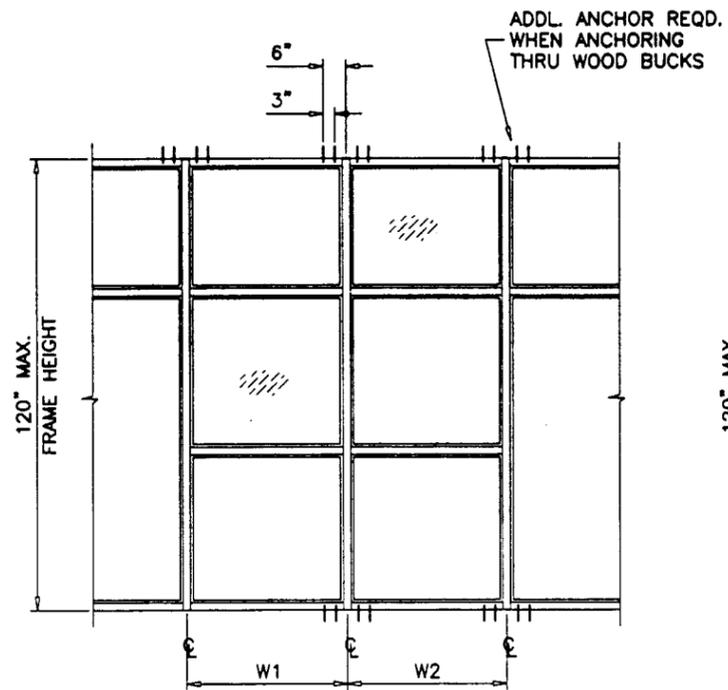
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B	10.29.02	REV. PER BCCO COMMENTS

date: 05-13-02
 scale: 1/2" = 1'-0"
 dr. by: HAMID
 chk. by:
 drawing no. **W02-47**
 sheet 1 of 6

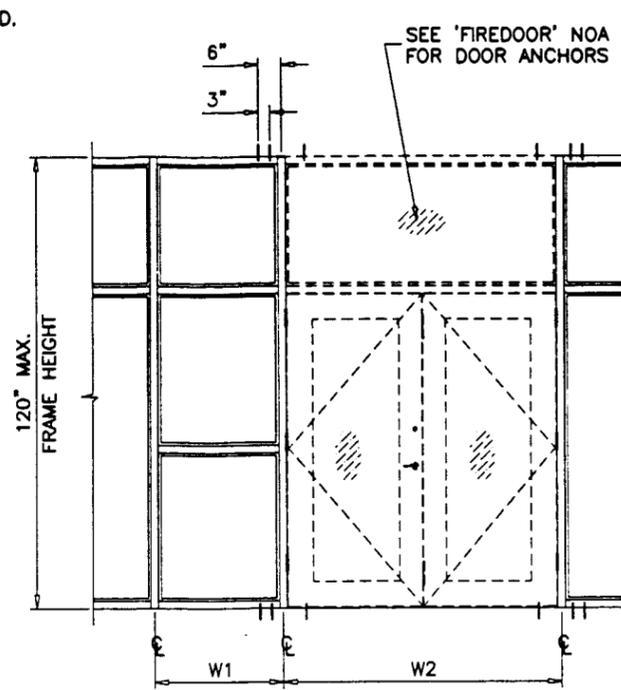
MULLION LOAD CAPACITY - PSF			
NOMINAL DIMS.		MULLION	
WIDTH (W)	FRAME HT.	EXT. (+)	INT. (-)
36"	84"	75.0	75.0
39"		75.0	75.0
42"		75.0	75.0
45"		75.0	75.0
48"		75.0	75.0
51"	75.0	75.0	
36"	90"	75.0	75.0
39"		75.0	75.0
42"		75.0	75.0
45"		75.0	75.0
48"		75.0	75.0
36"	96"	75.0	75.0
39"		75.0	75.0
42"		75.0	75.0
45"		75.0	75.0
48"		75.0	75.0
36"	102"	75.0	75.0
39"		75.0	75.0
42"		75.0	75.0
36"	108"	75.0	75.0
39"		75.0	75.0
36"	114"	75.0	75.0
36"	120"	75.0	75.0

MULLION CAPACITY CHARTS

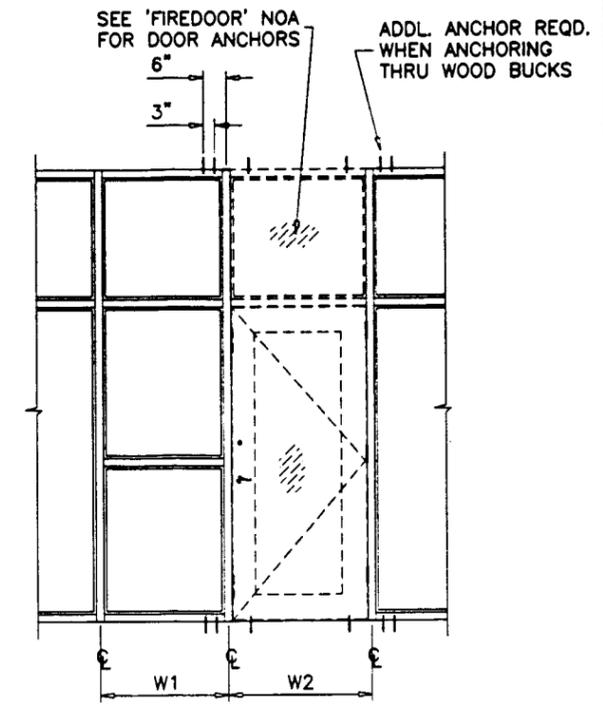
TO VERIFY GLASS OPTIONS AND CAPACITIES SEE CHARTS ON SHEET 3.



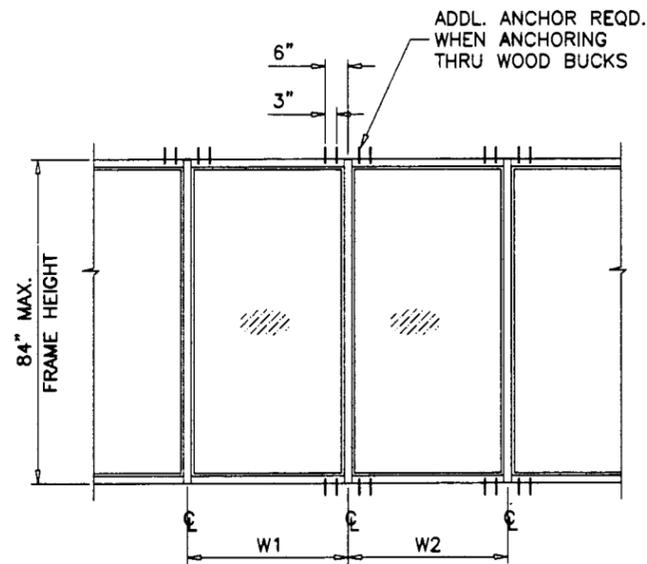
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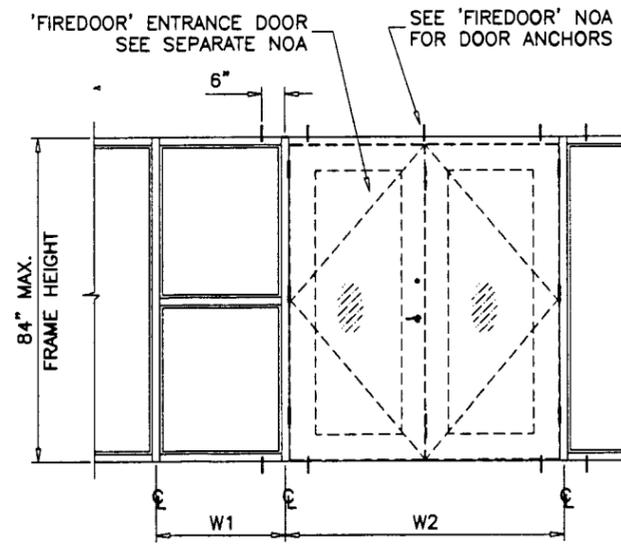
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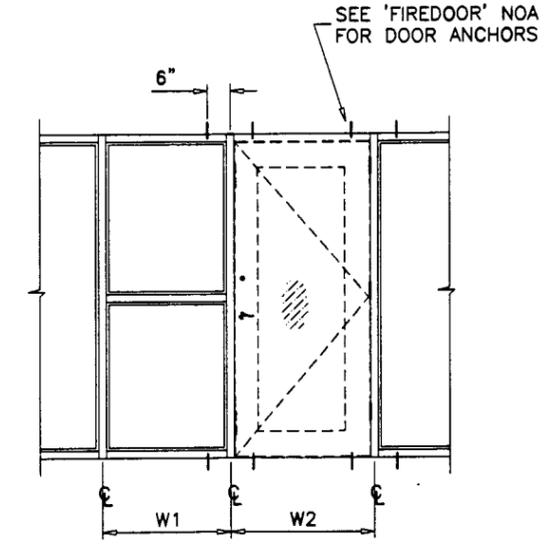
$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



$$\text{WIDTH (W)} = \frac{W1}{2} + \frac{W2}{4}$$



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

Approved as complying with the Florida Building Code
 Date NOV 21, 2002
 NOA# 02-0906-07
 Miami Dade Product Control Division
 By: Ishag I. Lhanda

Engr: DR. HUMAYUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
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af

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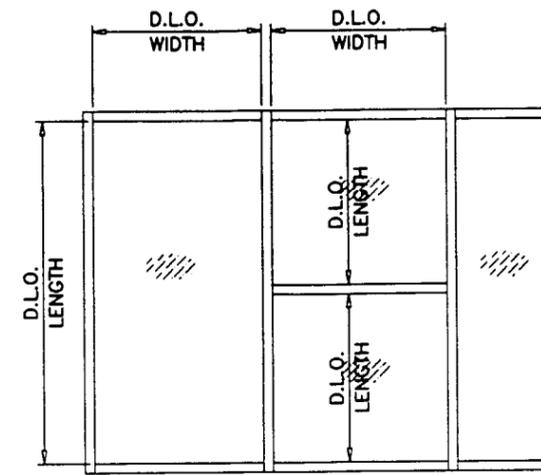
drawing no.
W02-47
 sheet 2 of 6

STORE W02-47FDC

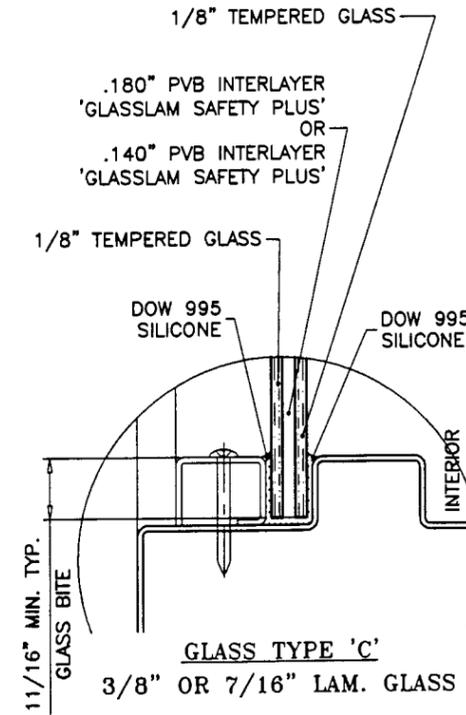
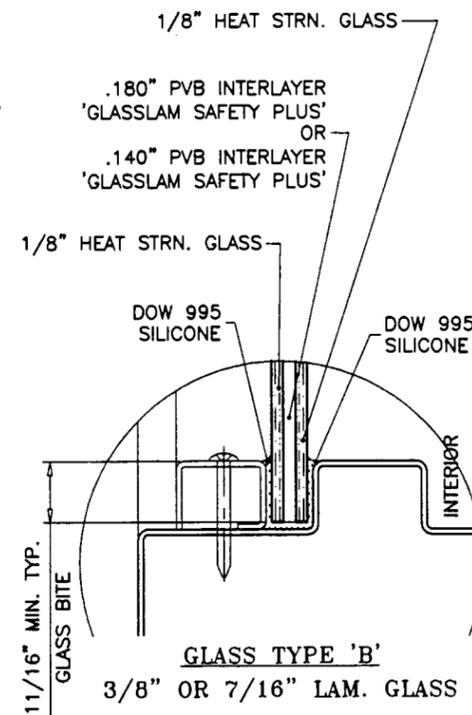
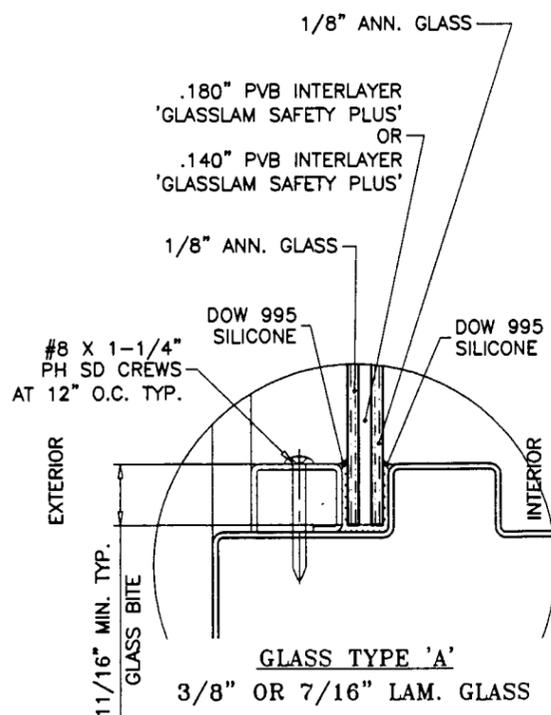
GLASS DESIGN LOAD CAPACITY - PSF							
D.L.O. DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'	
D.L.O. WIDTH	D.L.O. LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
18"	30-1/2"	75.0	75.0	75.0	75.0	75.0	75.0
21"		75.0	75.0	75.0	75.0	75.0	75.0
23-3/4"		75.0	75.0	75.0	75.0	75.0	75.0
27"		75.0	75.0	75.0	75.0	75.0	75.0
30-1/2"		75.0	75.0	75.0	75.0	75.0	75.0
36"		66.7	66.7	75.0	75.0	75.0	75.0
42"		57.6	57.6	75.0	75.0	75.0	75.0
48"		51.1	51.1	75.0	75.0	75.0	75.0
51"	48.4	48.4	75.0	75.0	75.0	75.0	
18"	38-1/2"	75.0	75.0	75.0	75.0	75.0	75.0
21"		75.0	75.0	75.0	75.0	75.0	75.0
23-3/4"		75.0	75.0	75.0	75.0	75.0	75.0
27"		70.8	70.8	75.0	75.0	75.0	75.0
30-1/2"		62.8	62.8	75.0	75.0	75.0	75.0
36"		54.4	54.4	75.0	75.0	75.0	75.0
42"		57.9	57.9	75.0	75.0	75.0	75.0
48"		51.8	51.8	75.0	75.0	75.0	75.0
51"	49.4	49.4	75.0	75.0	75.0	75.0	
18"	42"	75.0	75.0	75.0	75.0	75.0	75.0
21"		75.0	75.0	75.0	75.0	75.0	75.0
23-3/4"		75.0	75.0	75.0	75.0	75.0	75.0
27"		65.2	65.2	75.0	75.0	75.0	75.0
30-1/2"		57.6	57.6	75.0	75.0	75.0	75.0
36"		50.5	50.5	75.0	75.0	75.0	75.0
42"		54.2	54.2	75.0	75.0	75.0	75.0
48"		48.9	48.9	75.0	75.0	75.0	75.0
51"	46.3	46.3	75.0	75.0	75.0	75.0	
18"	48"	75.0	75.0	75.0	75.0	75.0	75.0
21"		75.0	75.0	75.0	75.0	75.0	75.0
23-3/4"		66.9	66.9	75.0	75.0	75.0	75.0
27"		57.4	57.4	75.0	75.0	75.0	75.0
30-1/2"		51.1	51.1	75.0	75.0	75.0	75.0
36"		45.2	45.2	75.0	75.0	75.0	75.0
42"		48.9	48.9	75.0	75.0	75.0	75.0
48"		44.9	44.9	75.0	75.0	75.0	75.0
51"	42.7	42.7	75.0	75.0	75.0	75.0	
18"	54"	75.0	75.0	75.0	75.0	75.0	75.0
21"		75.0	75.0	75.0	75.0	75.0	75.0
23-3/4"		60.6	60.6	75.0	75.0	75.0	75.0
27"		51.5	51.5	75.0	75.0	75.0	75.0
30-1/2"		45.9	45.9	75.0	75.0	75.0	75.0
36"		40.1	40.1	75.0	75.0	75.0	75.0
42"		44.1	44.1	75.0	75.0	75.0	75.0
48"		42.7	42.7	75.0	75.0	75.0	75.0
51"	42.7	42.7	75.0	75.0	75.0	75.0	
18"	60"	75.0	75.0	75.0	75.0	75.0	75.0
21"		69.6	69.6	75.0	75.0	75.0	75.0
23-3/4"		58.6	58.6	75.0	75.0	75.0	75.0
27"		47.2	47.2	75.0	75.0	75.0	75.0
30-1/2"		41.4	41.4	75.0	75.0	75.0	75.0
36"		36.2	36.2	72.4	72.4	75.0	75.0
42"		44.1	44.1	75.0	75.0	75.0	75.0
48"		42.7	42.7	75.0	75.0	75.0	75.0
51"	42.7	42.7	75.0	75.0	75.0	75.0	
18"	65-1/2"	75.0	75.0	75.0	75.0	75.0	75.0
21"		69.3	69.3	75.0	75.0	75.0	75.0
23-3/4"		54.7	54.7	75.0	75.0	75.0	75.0
27"		43.9	43.9	75.0	75.0	75.0	75.0
30-1/2"		37.9	37.9	75.0	75.0	75.0	75.0
36"		32.9	32.9	65.8	65.8	75.0	75.0
42"		44.1	44.1	75.0	75.0	75.0	75.0
48"		42.7	42.7	75.0	75.0	75.0	75.0
51"	42.7	42.7	75.0	75.0	75.0	75.0	

GLASS DESIGN LOAD CAPACITY - PSF							
D.L.O. DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'	
D.L.O. WIDTH	D.L.O. LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
18"	70-1/2"	75.0	75.0	75.0	75.0	75.0	75.0
21"		65.5	65.5	75.0	75.0	75.0	75.0
23-3/4"		51.3	51.3	75.0	75.0	75.0	75.0
27"		42.5	42.5	75.0	75.0	75.0	75.0
30-1/2"	35.5	35.5	70.9	70.9	75.0	75.0	
18"	72"	75.0	75.0	75.0	75.0	75.0	75.0
21"		64.3	64.3	75.0	75.0	75.0	75.0
23-3/4"		52.6	52.6	75.0	75.0	75.0	75.0
27"		41.7	41.7	75.0	75.0	75.0	75.0
30-1/2"	34.8	34.8	69.6	69.6	75.0	75.0	
18"	78"	75.0	75.0	75.0	75.0	75.0	75.0
21"		64.4	64.4	75.0	75.0	75.0	75.0
23-3/4"		50.0	50.0	75.0	75.0	75.0	75.0
27"		39.0	39.0	75.0	75.0	75.0	75.0
30-1/2"	32.6	32.6	65.2	65.2	75.0	75.0	
18"	80-1/2"	75.0	75.0	75.0	75.0	75.0	75.0
21"		62.7	62.7	75.0	75.0	75.0	75.0
23-3/4"		49.0	49.0	75.0	75.0	75.0	75.0
27"		38.0	38.0	75.0	75.0	75.0	75.0
30-1/2"	31.7	31.7	63.4	63.4	75.0	75.0	

GLASS CHARTS



Approved as complying with the Florida Building Code
 Date Nov 21, 2002
 NOA# 02-0906-04
 Miami Dade Product Control Division
 By Shag L. Chanda



VALUES SHOWN ABOVE ARE MAXIMUM DAYLITE OPENING DIMS. FOR GLASS. CONSULT WITH CHARTS AT SHEET 2 FOR MULLION CAPACITY.

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
OCT 29 2002

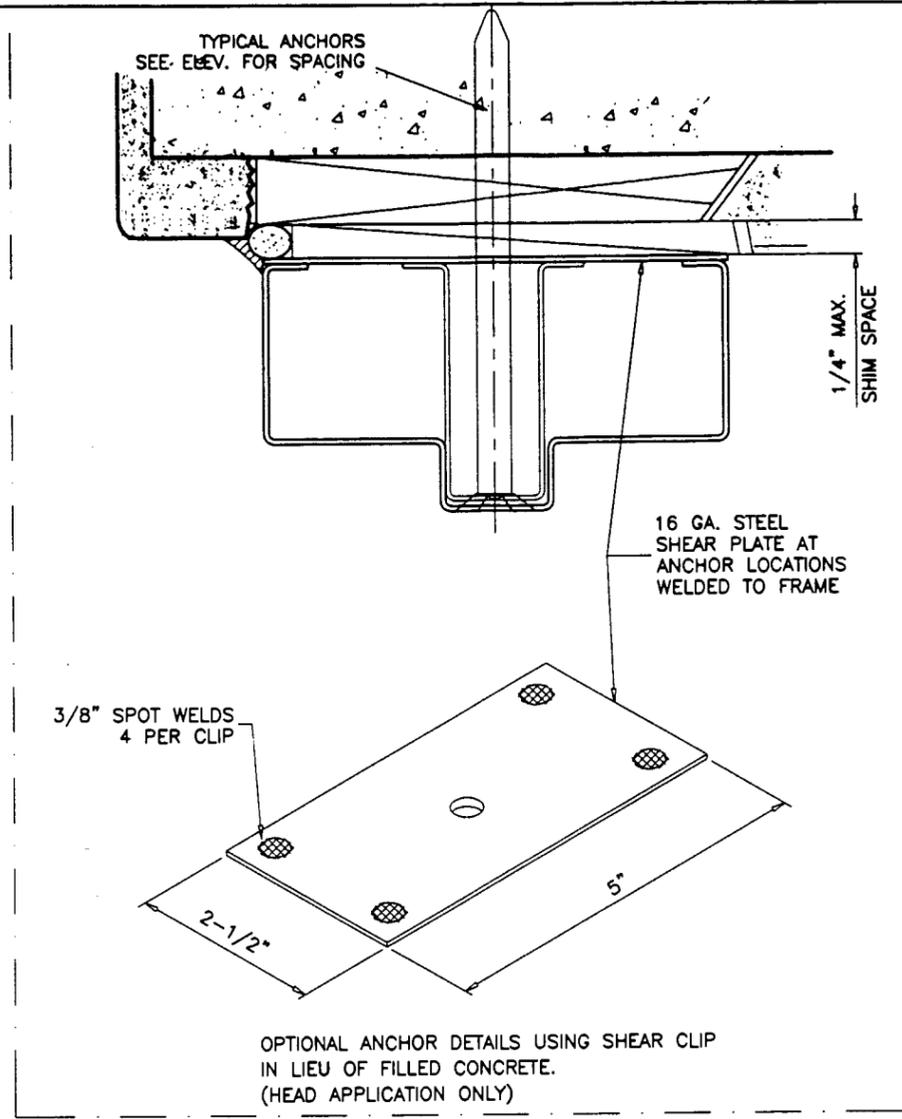
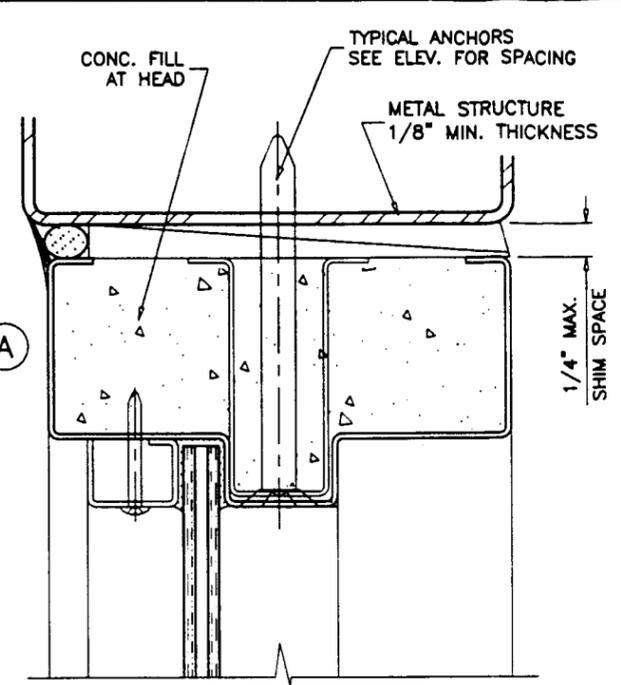
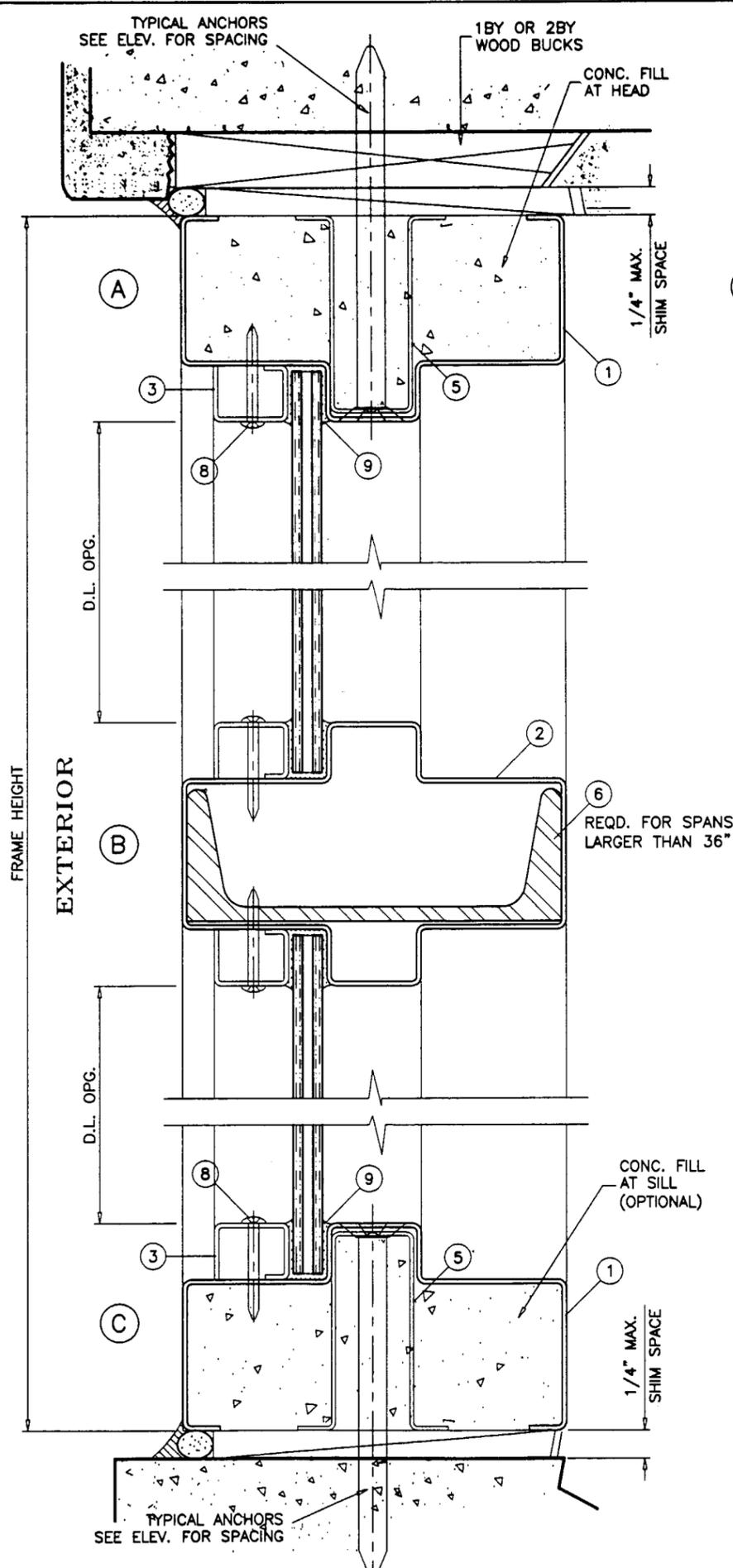
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no.	date	description
A	10.01.02	REV. PER BCCO COMMENTS

date: 05-13-02
 scale: 1/2" = 1'-0"
 dr. by: HAMID
 chk. by:

drawing no.
WO2-47
 sheet 3 of 6



- TYPICAL ANCHORS @ HEAD/JAMB:** SEE ELEV. FOR SPACING
- A) **3/8" DIA. RAWL TAPPER**
 THRU 1BY WOOD BUCKS INTO MASONRY
 2-1/4" MIN. EMBED INTO MASONRY
 THRU 2BY WOOD BUCKS INTO MASONRY
 1-1/2" MIN. EMBED INTO MASONRY
 DIRECTLY INTO CONC.
 1-3/4" MIN. EMBED INTO CONCRETE
 INTO BLOCK
 1-1/4" MIN. EMBED INTO MASONRY
 - B) **3/8" DIA. SLEEVE ANCHOR HILT**
 THRU 1BY WOOD BUCKS INTO MASONRY
 2-1/4" MIN. EMBED INTO MASONRY
 THRU 2BY WOOD BUCKS INTO MASONRY
 1-1/2" MIN. EMBED INTO MASONRY
 DIRECTLY INTO CONC.
 1-3/4" MIN. EMBED INTO CONCRETE
 - C) **3/8" SMS OR MACHINE BOLTS (MIN. GRADE 2 CRS)**
 INTO METAL STRUCTURES
 (STEEL OR ALUMINUM 1/8" MIN. THICK.)
 STEEL : Fy = 36 KSI MIN.
 ALUMINUM : 6063-T5 MIN.
- TYPICAL EDGE DISTANCE**
 INTO CONC. AND MASONRY = 3-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

WOOD BUCKS AND METAL STRUCTURES NOT BY FIREDOOR MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Approved as complying with the
 Florida Building Code
 Date: NOV 21, 2002
 NOA# 02-0906-01
 Miami Dade Product Control
 Division
 By: Ishaq I. Lhanda

NOTE:
 HEAD & SILL ANCHORED TO CONCRETE.
 JAMBS CAN BE ANCHORED TO MASONRY BLOCKS.

Engr: DR. HUMAYOON FAROOQ
 STRUCTURES
 FLA. PE # 16557
OCT 29 2002

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978

FIREDOOR CORPORATION
 1350 N.W. 74TH STREET
 MIAMI, FL. 33147
 TEL.(305) 691-1500 FAX(305) 836-4797

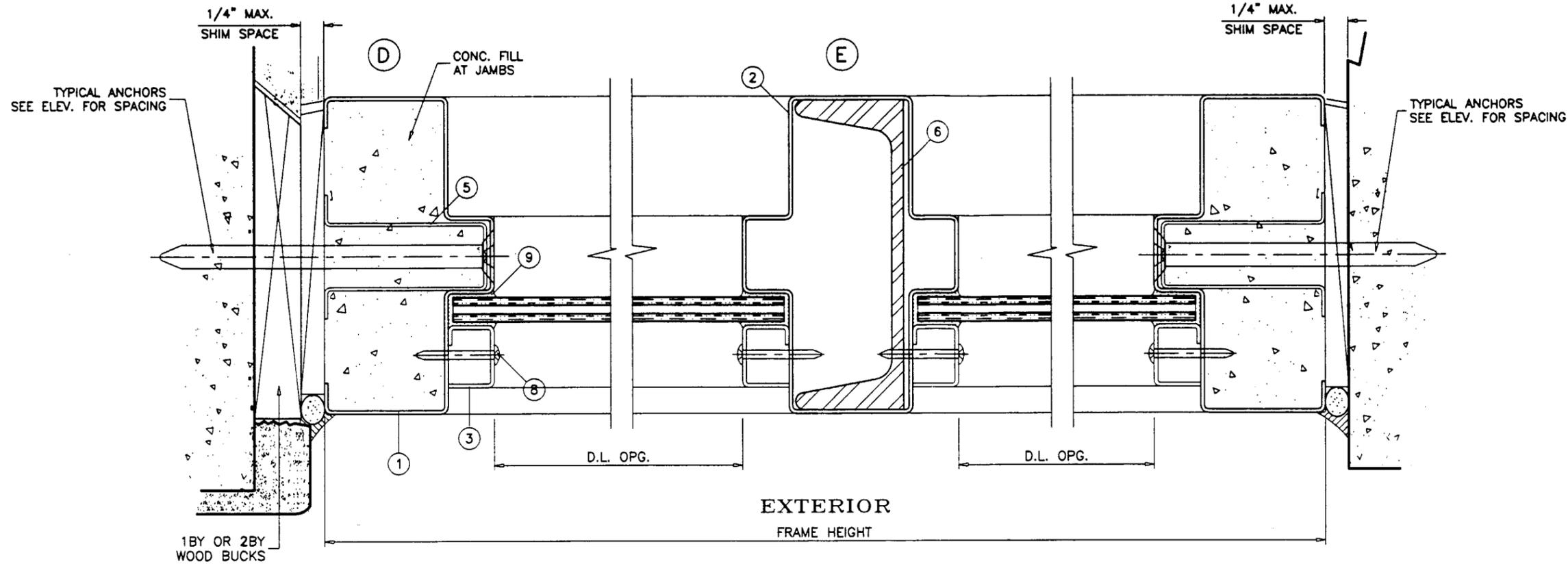
SERIES 1210 STEEL STOREFRONT SYS. (L.M.)

no	date	by	description
A	10.01.02	REV. PER BCCO COMMENTS	

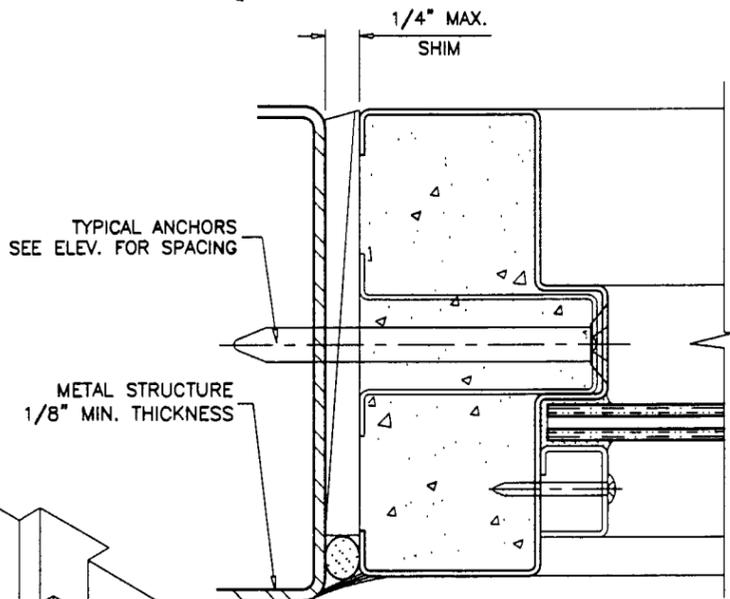
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 dr. by: HAMID
 chk. by:

drawing no.
W02-47

sheet 4 of 6

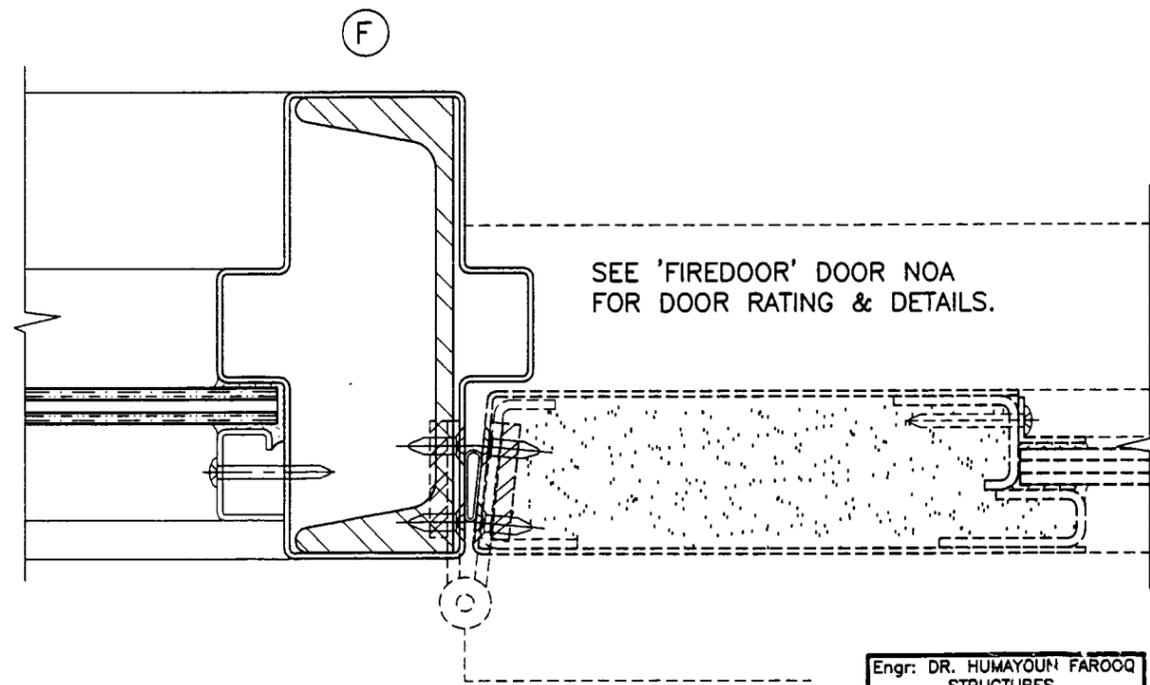


EXTERIOR
FRAME HEIGHT

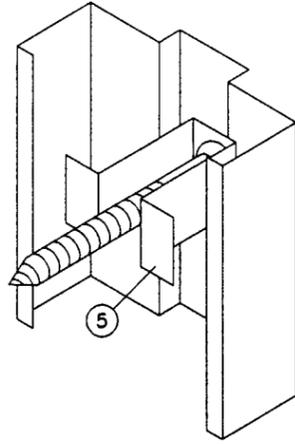


TYPICAL ANCHORS
SEE ELEV. FOR SPACING

METAL STRUCTURE
1/8" MIN. THICKNESS



SEE 'FIREDOOR' DOOR NOA
FOR DOOR RATING & DETAILS.



Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
OCT 29 2002

Approved as complying with the
Florida Building Code
Date NOV 21, 2002
NOA# 02-0906-04
Miami Dade Product Control
Division
By Ishag I. Chande

afc

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STORE W02-47FDC

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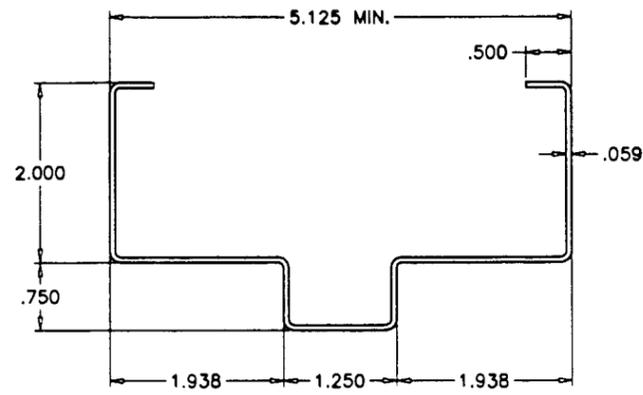


no	date	by	description
A	10.01.02		REV. PER BCCO COMMENTS

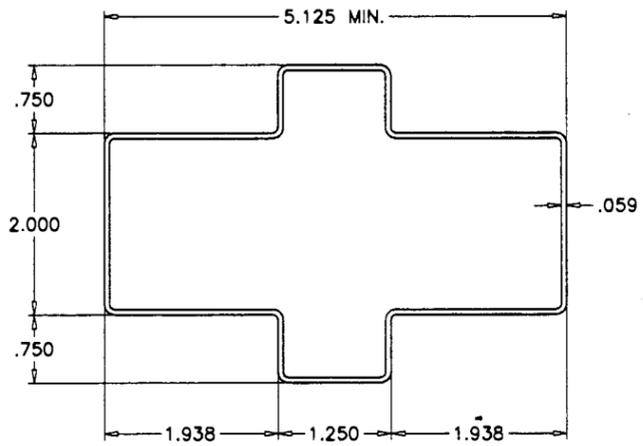
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drawing no.
W02-47

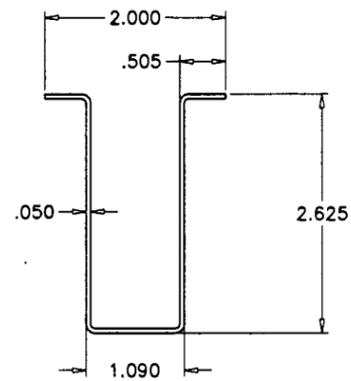
sheet 5 of 6



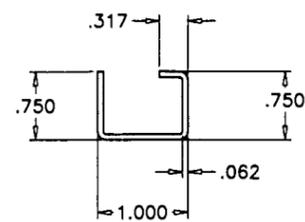
FRAME HEAD/JAMB/SILL



FRAME HORIZONTAL/VERTICAL

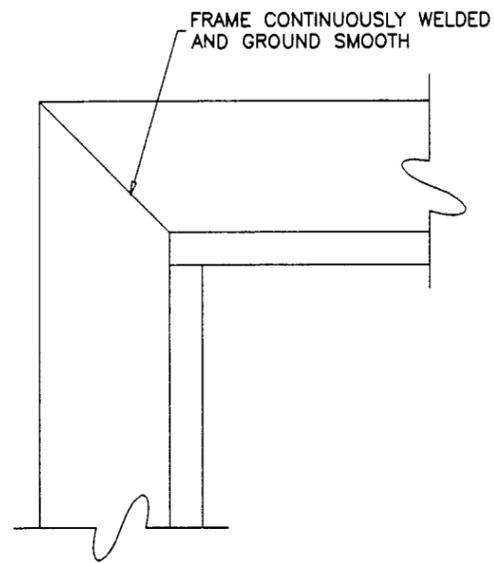


ANCHOR SPACER

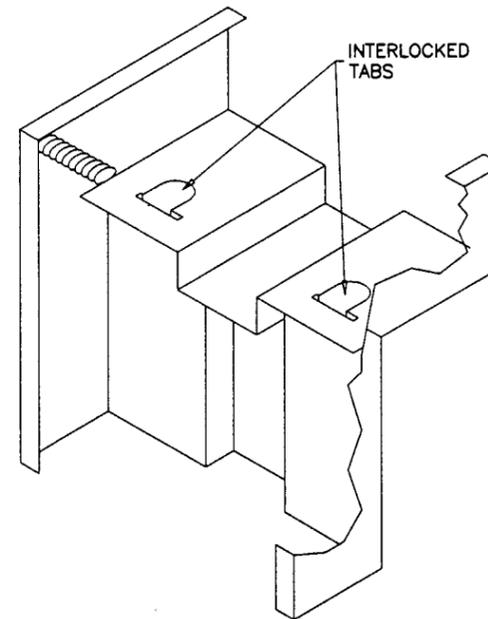


GLAZING STOP

ITEM NO.	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	-	AS REQD.	FRAME HEAD/SILL/JAMB	STEEL	18 GA. FORMED (.058") MIN. Fy = 41,000
2	-	AS REQD.	FRAME MULLION/HORIZONTAL	STEEL	18 GA. FORMED (.058") MIN. Fy = 45,000
3	-	AS REQD.	GLAZING STOP	STEEL	18 GA. FORMED
5	-	1/ ANCHOR	ANCHOR SPACER	STEEL	18 GA.
6	C5 X 6.7	AS REQD.	REINFORCING CHANNEL	STEEL	1-3/4" X 5"
8	#8X1-1/4"	AS REQD.	GLAZING STOP SCREWS	-	AT 3" FROM ENDS & 12" O.C.
9	DOW 995	AS REQD.	GLAZING COMPOUND	SILICONE	-



FRAME CORNERS



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Miami Dade Product Control
Division
By Isaac I. Lhanda

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 18357

OCT 29 2002

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sheet 6 of 6